

## SEQUENCE LISTING

5 <110> BASF Plant Science GmbH  
 SweTree Technologies AB

10 <120> POST HARVEST CONTROL OF GENETICALLY MODIFIED CROP GROWTH EM-  
 PLOYING D-AMINO ACID COMPOUNDS

15 <130> PF 55447 EP  
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 <170> PatentIn version 3.1

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Ser Pro Met Leu Leu Thr Ser Gly Val Glu Asp Gly Gly Ala Asp Val  
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12/34

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	Cys	Ile	His	Thr	Gly	Val	Tyr	Leu	Asn	Trp	Leu	Met	Ser	Gln	Cys	Leu	
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	Ser	Leu	Gly	Ala	Thr	Val	Val	Lys	Arg	Arg	Val	Asn	His	Ile	Lys	Asp	
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	Cys	Ser	Gly	Leu	Phe	Ala	Arg	Phe	Leu	Gly	Gly	Val	Glu	Asp	Lys	Lys	
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	Met	Tyr	Pro	Ile	Arg	Gly	Gln	Val	Val	Leu	Val	Arg	Asn	Ser	Leu	Pro	
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	Phe	Met	Ala	Ser	Phe	Ser	Ser	Thr	Pro	Glu	Lys	Glu	Asn	Glu	Asp	Glu	
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	gct	cta	tat	atc	atg	acc	cga	ttc	gat	ggt	act	tct	atc	att	ggc	ggt	768
	Ala	Leu	Tyr	Ile	Met	Thr	Arg	Phe	Asp	Gly	Thr	Ser	Ile	Ile	Gly	Gly	
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	His	Arg	Ile	Leu	Ser	Arg	Ala	Leu	Asp	Arg	Phe	Pro	Glu	Leu	Thr	Lys	
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30	gat	ggc	cct	ctt	gac	att	gtg	cgc	gaa	tgc	gtt	ggc	cac	cgt	cct	ggt	912
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&lt;212&gt; PRT

<213> *Trigonopsis variabilis*

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 10 Phe Thr Pro Gly Asp Leu Ser Ile Gly Tyr Thr Ser Pro Trp Ala Gly  
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 Ala Asn Trp Leu Thr Phe Tyr Asp Gly Gly Lys Leu Ala Asp Tyr Asp  
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 65 70 75 80  
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 Leu Pro Lys Leu Glu Val Ala Met Ser Ala Ile Cys Gln Arg Asn Pro  
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 Arg Ile Val His Asp Asp Val Ala Tyr Leu Val Glu Phe Arg Ser Val  
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 Cys Ile His Thr Gly Val Tyr Leu Asn Trp Leu Met Ser Gln Cys Leu  
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 Ala Asn Leu Leu His Ser Ser Gly Ser Arg Pro Asp Val Ile Val Asn  
 180 185 190  
 40 Cys Ser Gly Leu Phe Ala Arg Phe Leu Gly Gly Val Glu Asp Lys Lys  
 195 200 205  
 Met Tyr Pro Ile Arg Gly Gln Val Val Leu Val Arg Asn Ser Leu Pro  
 45 210 215 220  
 Phe Met Ala Ser Phe Ser Ser Thr Pro Glu Lys Glu Asn Glu Asp Glu

Cys Phe Gln Pro Asn Asn Trp Ser Ser Glu Pro Asp Pro Ser Leu Thr  
260 265 270

His Arg Ile Leu Ser Arg Ala Leu Asp Arg Phe Pro Glu Leu Thr Lys  
275 280 285

Asp Gly Pro Leu Asp Ile Val Arg Glu Cys Val Gly His Arg Pro Gly  
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Arg	Glu	Gly	Gly	Pro	Arg	Val	Glu	Leu	Glu	Lys	Ile	Pro	Gly	Val	Gly
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Phe Val Val His Asn Tyr Gly Ala Ala Gly Ala Gly Tyr Gln Ser Ser  
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Ile Gly Leu Thr Thr Ala Trp Ile Leu Ser Asp Leu Gly Leu Ala Pro

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Arg Ile Lys Val Ile Ala Lys Tyr Thr Pro Glu Asp Arg Ser Val Glu  
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tac act tcc cct tgg gct ggc gca aat ttc tgt agc att tct gct act 195

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	Asp	Asp	Asn	Ala	Leu	Arg	Trp	Asp	Lys	Ile	Thr	Tyr	His	Arg	Phe	Ala	
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	Tyr	Leu	Ala	Lys	Thr	Arg	Pro	Glu	Ala	Gly	Ile	Arg	Phe	Ala	Asp	Leu	
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10	Arg	Glu	Leu	Trp	Glu	Tyr	Glu	Pro	Lys	His	Asp	Lys	Ile	Arg	Ser	Trp	
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	Asn	Thr	Tyr	Val	Arg	Asp	Phe	Lys	Val	Ile	Pro	Glu	Lys	Asp	Leu	Pro	
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	Gly	Glu	Cys	Ile	Tyr	Gly	His	Lys	Ala	Thr	Thr	Phe	Leu	Ile	Asn	Ala	
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	Pro	His	Tyr	Leu	Asn	Tyr	Met	Tyr	Lys	Leu	Leu	Ile	Glu	Ala	Gly	Val	
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	Glu	Phe	Glu	Lys	Lys	Glu	Leu	Ser	His	Ile	Lys	Glu	Thr	Val	Glu	Glu	
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	Val	Ile	Cys	Gly	Gly	Phe	Met	Gln	Pro	Gly	Asn	Trp	Asp	Arg	Glu	Ile	
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40	His	Pro	Glu	Asp	Thr	Leu	Asp	Ile	Leu	Lys	Arg	Thr	Ser	Ala	Leu	Met	
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	Glu	Cys	Val	Gly	Phe	Arg	Pro	Ser	Arg	Lys	Gly	Gly	Ala	Arg	Val	Glu	
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 35 40 45  
 25 Gly Ala Asn Phe Cys Ser Ile Ser Ala Thr Asp Asp Asn Ala Leu Arg  
 50 55 60  
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 30 65 70 75 80  
 Pro Glu Ala Gly Ile Arg Phe Ala Asp Leu Arg Glu Leu Trp Glu Tyr  
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 40 His Lys Ala Thr Thr Phe Leu Ile Asn Ala Pro His Tyr Leu Asn Tyr  
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	Pro His Val Thr Glu Thr Arg Ile Leu Asn Gly Lys Asn Ser Asp Thr		
10	210	215	220
	Tyr Ile Ile Pro Arg Pro Leu Asn Gly Gly Val Ile Cys Gly Gly Phe		
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15	Met Gln Pro Gly Asn Trp Asp Arg Glu Ile His Pro Glu Asp Thr Leu		
	245	250	255
	Asp Ile Leu Lys Arg Thr Ser Ala Leu Met Pro Glu Leu Phe His Gly		
	260	265	270
20	Lys Gly Pro Glu Gly Ala Glu Ile Ile Gln Glu Cys Val Gly Phe Arg		
	275	280	285
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25	290	295	300
	Thr Ser Val Pro Leu Val His Asp Tyr Gly Ala Ser Gly Thr Gly Tyr		
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&lt;223&gt; DAAO signature

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    Gly Val Ile Gly Leu Thr Thr Ala Val Val Leu Ala Glu Arg Gly Arg
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    cgg gtg cgg ctg tgg acc cgg gag ccc gcg gag cgg acc acc tcg gtg      150
    Arg Val Arg Leu Trp Thr Arg Glu Pro Ala Glu Arg Thr Thr Ser Val
    25              30              35              40
15  gta gcg ggc ggg ctg tgg tgg ccg tac cgg atc gag ccg gtc gcg ctg      198
    Val Ala Gly Gly Leu Trp Trp Pro Tyr Arg Ile Glu Pro Val Ala Leu
        45              50              55
    gcc cag gcc tgg gcg ctg cgt tcc ctg gac gtg tac gag gag ctg gcg      246
    Ala Gln Ala Trp Ala Leu Arg Ser Leu Asp Val Tyr Glu Glu Leu Ala
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20  gca cgg ccc ggg cag acc ggc gta cgc atg ctc gaa ggg gtg ctc ggc      294
    Ala Arg Pro Gly Gln Thr Gly Val Arg Met Leu Glu Gly Val Leu Gly
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    gag acc ggc ctg gac gag gtg gac ggg tgg gcc gcg gcc cgg ctg ccg      342
    Glu Thr Gly Leu Asp Glu Val Asp Gly Trp Ala Ala Ala Arg Leu Pro
25  90              95              100
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    Gly Leu Arg Ala Ala Ser Ala Ala Glu Tyr Ala Gly Thr Gly Leu Trp
    105              110              115              120
30  gcg cgg ctg ccg ctc atc gac atg tcg acc cat ctg ccg tgg ctg cgg      438
    Ala Arg Leu Pro Leu Ile Asp Met Ser Thr His Leu Pro Trp Leu Arg
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    gag cgg ctg ctg gcc gcg ggc ggc acg gtg gag gac cgc gcg gtg acc      486
    Glu Arg Leu Leu Ala Ala Gly Gly Thr Val Glu Asp Arg Ala Val Thr
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35  gat ctg gcc gag gcg gac gcg ccg gtg gtg gtc aac tgc acc ggc ctg      534
    Asp Leu Ala Glu Ala Asp Ala Pro Val Val Val Asn Cys Thr Gly Leu
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    ggc gcc cgg gag ctg gtg ccg gac ccg gcg gta cgg ccg gtg cgc gga      582
    Gly Ala Arg Glu Leu Val Pro Asp Pro Ala Val Arg Pro Val Arg Gly
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    cag ctg gtc gtc gtg gag aac ccc ggc atc cac aac tgg ctg gtc gcg      630
    Gln Leu Val Val Val Glu Asn Pro Gly Ile His Asn Trp Leu Val Ala
    185              190              195              200
    gcc gac gcg gac tcc ggg gag acg acg tac ttc ctt ccg cag ccg gga      678
45  Ala Asp Ala Asp Ser Gly Glu Thr Thr Tyr Phe Leu Pro Gln Pro Gly
        205              210              215
    cgg ctc ctg ctg ggc ggc acg gct gag gag gac gcc tgg tcg acc gag      726

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 Pro Asp Pro Glu Val Ala Ala Ala Ile Val Arg Arg Cys Ala Ala Leu  
 5 235 240 245  
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Gly Trp Ala Ala Ala Arg Leu Pro Gly Leu Arg Ala Ala Ser Ala Ala  
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5 Glu Tyr Ala Gly Thr Gly Leu Trp Ala Arg Leu Pro Leu Ile Asp Met  
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Ser Thr His Leu Pro Trp Leu Arg Glu Arg Leu Leu Ala Ala Gly Gly  
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15 Pro Ala Val Arg Pro Val Arg Gly Gln Leu Val Val Val Glu Asn Pro  
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20 Gly Ile His Asn Trp Leu Val Ala Ala Asp Ala Asp Ser Gly Glu Thr  
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Thr Tyr Phe Leu Pro Gln Pro Gly Arg Leu Leu Leu Gly Gly Thr Ala  
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Ile Val Arg Arg Cys Ala Ala Leu Arg Pro Glu Ile Ala Gly Ala Arg  
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30 Val Leu Ala His Leu Val Gly Leu Arg Pro Ala Arg Asp Ala Val Arg  
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35 Leu Glu Arg Gly Thr Leu Pro Asp Gly Arg Arg Leu Val His Asn Tyr  
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	Thr Thr Tyr Cys Leu Ile Tyr Glu Ala Gly Cys Ala Pro Ala Lys Ile	
	20 25 30	
	act att gtt gct gaa ttt tta cca ggt gat caa tct aca tta tat aca	144
	Thr Ile Val Ala Glu Phe Leu Pro Gly Asp Gln Ser Thr Leu Tyr Thr	
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	tct cca tgg gca ggt ggt aat ttt tct tgt att tca cca gct gat gat	192
	Ser Pro Trp Ala Gly Gly Asn Phe Ser Cys Ile Ser Pro Ala Asp Asp	
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20	Thr Thr Leu Ala Tyr Asp Lys Phe Thr Tyr Leu Asn Leu Phe Lys Ile	
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	His Lys Lys Leu Gly Gly Pro Glu Cys Gly Leu Asp Asn Lys Pro Ser	
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25	act gaa tat tgg gat ttt tat cct ggt gat gaa aaa gtc aat tct tta	336
	Thr Glu Tyr Trp Asp Phe Tyr Pro Gly Asp Glu Lys Val Asn Ser Leu	
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	aaa caa tat ctt aaa gat ttt aaa gtt att cca aaa tca gaa tta cca	384
	Lys Gln Tyr Leu Lys Asp Phe Lys Val Ile Pro Lys Ser Glu Leu Pro	
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	Glu Gly Val Glu Tyr Gly Ile Ser Tyr Thr Thr Trp Asn Phe Asn Cys	
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	cct gtt ttc tta caa aat atg gct aat ttt tta aat aaa aga aat gtt	480
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	Val Asn Thr Lys Val Val Phe Asn Cys Thr Gly Ile Gly Ala Ala Asp	
	180 185 190	
	tta ggt ggt gtt aaa gat gaa aaa gtt tat cca act aga gga caa gtt	624
	Leu Gly Gly Val Lys Asp Glu Lys Val Tyr Pro Thr Arg Gly Gln Val	
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	gtt gtt gtt aga gct cca cat att caa gaa aat aaa atg aga tgg ggt	672
	Val Val Val Arg Ala Pro His Ile Gln Glu Asn Lys Met Arg Trp Gly	

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	Leu Val Leu Gly Gly Phe Leu Gln Lys Asp Asn Trp Thr Gly Asn Thr			
	245	250	255	
	ttt ggt ttt gaa act gat gat att gtt agt aga act aca tct tta tta			816
	Phe Gly Phe Glu Thr Asp Asp Ile Val Ser Arg Thr Thr Ser Leu Leu			
10	260	265	270	
	cca aag att tta gat gaa cca ctt cat att att aga gtt gca gct ggt			864
	Pro Lys Ile Leu Asp Glu Pro Leu His Ile Ile Arg Val Ala Ala Gly			
	275	280	285	
15	tta aga cca agt aga cat ggt ggt cca aga att gaa gct gaa gtt tgt			912
	Leu Arg Pro Ser Arg His Gly Gly Pro Arg Ile Glu Ala Glu Val Cys			
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	Glu Glu Gly Lys Leu Thr Ile His Asn Tyr Gly Ala Ser Gly Tyr Gly			
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	Tyr Gln Ala Gly Tyr Gly Met Ser Tyr Glu Ala Val Lys Leu Leu Val			
	325	330	335	
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